



## **HANIL SCIENTIFIC Multi-purpose Centrifuges**

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## Combi 508

Compact Benchtop,  
Multi-purpose Centrifuge



## Combi R515

High-speed, Multi-purpose  
Refrigerated Centrifuge



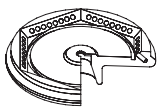
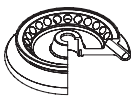
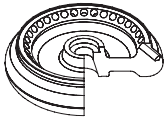
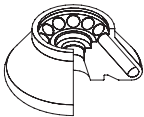
### Combi 508

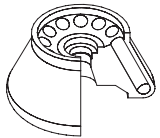
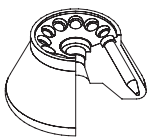
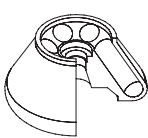
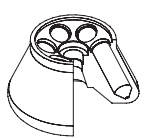
- Compact, Multi-purpose benchtop centrifuge with a clean white design
- Ideal for routine usage of 4 x 750 mL swing-out centrifugation
- Very quiet and static operation with BLDC motor
- The extensive range of accessories can accommodate tubes from 0.2 mL to 750 mL as well as microtiter plates.
- Automatic rotor identification
- Imbalance cutoff and tracking
- Intuitive and easy control and informative display
- Smooth operation with motorized lid opening and closure

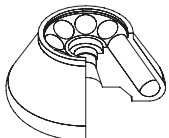
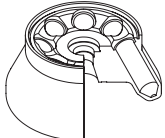
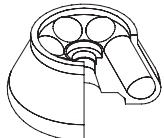
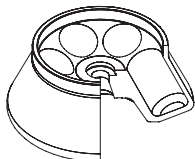
### Combi R515

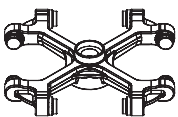
- Multi-purpose centrifuge for using both fixed angle and swing-out rotors
- Robust, practical benchtop design with an easy-to-clean, UV-resistant white surface
- Performance up to 15,000 rpm (24,000 xg) with 6 x 85 mL rotor
- Can be used with many different rotors and adaptors for a wide variety of applications
- Large capacity swing-out rotor for 4 x 500 mL up to 4,500 rpm (4,300 xg)
- The extensive range of accessories can accommodate tubes from 0.2 mL to 750 mL as well as microtiter plates.
- Automatic rotor identification prevents overspeed
- Imbalance cutoff and tracking
- Intuitive and easy control and extensively informative display
- Smoothly working motorized lid opening and closure
- Excellent temperature control
- Built-in condensation drain to eliminate water accumulation
- Password lock function

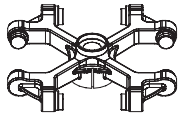
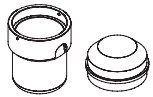
## Compatible Rotors

| Cat. No.                  | A0.2-48                                                                           | A2.0-24                                                                           | A2.0-36                                                                            | A10-12                                                                              |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |  |  |  |  |
| Max. Capacity             | 48 x 0.2 mL, 6 x PCR strip                                                        | 24 x 1.5/2.0 mL                                                                   | 36 x 1.5/2.0 mL                                                                    | 12 x 10 mL                                                                          |
| Max. Speed (508 / R515)   | 8,000 / 12,500                                                                    | 8,000 / 15,000                                                                    | 8,000 / 14,000                                                                     | 8,000 / 15,000                                                                      |
| Max. g-force (508 / R515) | 6,361 / 15,530                                                                    | 5,781 / 20,325                                                                    | 8,279 / 25,353                                                                     | 6,089 / 21,407                                                                      |

| Cat. No.                  | A15S-12                                                                           | A15c-12                                                                           | A50-6                                                                              | A50C-6                                                                              |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           |  |  |  |  |
| Max. Capacity             | 12 x 15 mL                                                                        | 12 x 15 mL conical                                                                | 6 x 50 mL                                                                          | 6 x 50 mL conical                                                                   |
| Max. Speed (508 / R515)   | 8,000 / 15,000                                                                    | 8,000 / 15,000                                                                    | 8,000 / 15,000                                                                     | 8,000 / 15,000                                                                      |
| Max. g-force (508 / R515) | 6,876 / 24,174                                                                    | 7,112 / 25,004                                                                    | 6,876 / 24,174                                                                     | 6,511 / 22,891                                                                      |

| Cat. No.                  | A50-8                                                                               | A50c-8                                                                              | A85-6                                                                                | A250-6                                                                                |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                           |  |  |  |  |
| Max. Capacity             | 8 x 50 mL                                                                           | 8 x 50 mL conical                                                                   | 6 x 85 mL                                                                            | 6 x 250 mL                                                                            |
| Max. Speed (508 / R515)   | 8,000 / 15,000                                                                      | 8,000 / 13,000                                                                      | 8,000 / 15,000                                                                       | - / 8,000                                                                             |
| Max. g-force (508 / R515) | 7,076 / 24,878                                                                      | 7,906 / 20,878                                                                      | 6,983 / 24,551                                                                       | - / 9,896                                                                             |

| Swing-Out Rotor<br>Rotor Frame + Bucket | S-750-4                                                                             | B750S                                                                               |      | B750                                                                                  |      | TM96(750-4)                                                                           |      |
|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|
|                                         |                                                                                     | 508                                                                                 | R515 | 508                                                                                   | R515 | 508                                                                                   | R515 |
|                                         |  |  |      |  |      |  |      |
| Max. Capacity                           | 4 x 100 mL                                                                          | 750 mL                                                                              |      | 750 mL                                                                                |      | 4 x MTP                                                                               |      |
| Max. Speed / g -force                   | 4,000 rpm                                                                           | 3,515 xg                                                                            |      | 3,515 xg                                                                              |      | 2,925 xg                                                                              |      |

| Swing-Out Rotor<br>Rotor Frame + Bucket | S-500-4                                                                             |           | B500                                                                                |          | TM96(500-4)                                                                           |      |
|-----------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|------|
|                                         | 508                                                                                 | R515      | 508                                                                                 | R515     | 508                                                                                   | R515 |
|                                         |  |           |  |          |  |      |
| Max. Capacity                           | 4 x 500 mL                                                                          |           | 500 mL                                                                              |          | 4 x MTP                                                                               |      |
| Max. Speed / g -force                   | 4,000 rpm                                                                           | 4,500 rpm | 3,470 xg                                                                            | 4,392 xg | 2,775 xg                                                                              |      |

## Technical Specifications

| Model Name                  | Combi 508                                  | Combi R515                               |
|-----------------------------|--------------------------------------------|------------------------------------------|
| Max. RPM / Fixed angle      | 8,000 rpm                                  | 15,000 rpm                               |
| Max. RCF / Fixed angle      | 8,279 xg                                   | 25,353 xg                                |
| Max. RPM / Swing-out        | 4,000 rpm                                  | 4,500 rpm                                |
| Max. RCF / Swing-out        | 3,515 xg                                   | 4,392 xg                                 |
| Max. capacity / Fixed angle | 6 x 85 mL                                  | 6 x 250 mL, 36 x 1.5 / 2.0 mL            |
| Max. capacity / Swing-out   | 4 x 750 mL                                 | 4 x 750 mL, 76 x 15 mL, 4 MTPs           |
| ACC / DEC ramps             | 10 / 10 steps                              | 10 / 10 steps                            |
| Temperature range           | -                                          | -10 °C ~ 40 °C                           |
| Time control                | < 2 hr, continuous                         | < 100 hr, pulse, continuous              |
| Program memory              | 100                                        | 100                                      |
| Noise level                 | ≤ 65 dB                                    | ≤ 65 dB                                  |
| Imbalance cutoff            | Yes                                        | Yes                                      |
| Rotor identification        | Automatic                                  | Automatic                                |
| Dimension (W x D x H, mm)   | 530 x 676 x 400                            | 723 x 665 x 387                          |
| Weight                      | 61 kg                                      | 95 kg                                    |
| Power requirement           | 1.0 kVA                                    | 1.9 kVA                                  |
| Power input (V,Hz)          | 210 V ~ 240 V, 50 / 60 Hz (110 V optional) | 210 V~240 V, 50 / 60 Hz (110 V optional) |
| Cat. No.                    | CB-508 / CB-408                            | CB-R515 / CB-514R                        |

## Ordering Information

| Main Body |                                          |
|-----------|------------------------------------------|
| CB-508    | Combi 508 without rotor (220V, 50/60Hz)  |
| CB-R515   | Combi R515 without rotor (220V, 50/60Hz) |

| Rotors  |                                   |
|---------|-----------------------------------|
| S500-4  | Four-wing Swing 500 mL Rotor      |
| S750-4  | Four-wing Swing 750 mL Rotor      |
| A0.2-48 | Angle Rotor of PCR strip tubes    |
| A2.0-24 | Angle Rotor of 24 microtubes      |
| A2.0-36 | Angle Rotor of 36 microtubes      |
| A10-12  | Angle Rotor of 12 x 10 mL tube    |
| A15S-12 | Angle Rotor of 12 x 15 mL tube    |
| A15c-12 | Angle Rotor of 12 x 15 mL conical |
| A50-6   | Angle Rotor of 6 x 50 mL          |
| A50c-6  | Angle Rotor of 6 x 50 mL conical  |
| A50-8   | Angle Rotor of 8 x 50 mL          |
| A50c-8  | Angle Rotor of 8 x 50 mL conical  |
| A85-6   | Angle Rotor of 6 x 85 mL          |
| A250-6  | Angle Rotor of 6 x 250 mL         |

| Buckets      |                                                    |
|--------------|----------------------------------------------------|
| B500         | 500 mL Round Bucket including cap (SET=4EA)        |
| B750         | 750 mL Round Bucket                                |
| B750S        | 750 mL Round Bucket without cap                    |
| BL500-4      | Clear Cap for 500 mL round bucket (4 ea/set)       |
| BL750-4      | Black Cap for 750 mL round bucket B750S (4 ea/set) |
| BL750-C-6    | Clear Cap for 750 mL round bucket B750S (4 ea/set) |
| TM96(500-4)  | Microplate Holder of swing 500 mL rotor            |
| TM96(750-4)  | Microplate Holder of swing 750 mL rotor            |
| TM96(mw-750) | Microplate Holder of swing 750 mL rotor (Black)    |

| Adaptors   |                                                          |
|------------|----------------------------------------------------------|
| TR0.2(2)   | 0.2 mL Adaptor for microtube rotors                      |
| TR0.5(2)   | 0.5 mL Adaptor for microtube rotors                      |
| TR15(A50)  | 15 mL Round Tube Adaptor for angle rotor A50-6, A50-8    |
| TR15c(50)  | 15 mL Conical Tube Adaptor for 50 mL round bottom hole   |
| TR25c(50)  | 25 mL Conical Tube Adaptor for 50 mL round bottom hole   |
| TR30(50)   | 30 mL Round Tube Adaptor for 50 mL round bottom hole     |
| TR15c(50c) | 15 mL Conical Tube Adaptor for 50 mL conical bottom hole |
| TR25c(50c) | 25 mL Conical Tube Adaptor for 50 mL conical bottom hole |
| TR30(50c)  | 30 mL Round Tube Adaptor for 50 mL conical bottom hole   |
| TR50(50c)  | 50 mL Round Tube Adaptor for 50 mL conical bottom hole   |

| Adaptors      |                                                                  |
|---------------|------------------------------------------------------------------|
| TR50cs(50c)   | 50 mL Skirted Conical Tube Adaptor for 50 mL conical bottom hole |
| TR15(85)      | 15 mL Round Tube Adaptor for 85 mL round bottom hole             |
| TR15c(85)     | 15 mL Conical Tube Adaptor for 85 mL round bottom hole           |
| TR25c(85)     | 25 mL Conical Tube Adaptor for 85 mL round bottom hole           |
| TR30(85)      | 30 mL Round Tube Adaptor for 85 mL round bottom hole             |
| TR50(85)      | 50 mL Round Tube Adaptor for 85 mL round bottom hole             |
| TR50c(85)     | 50 mL Conical Tube Adaptor for 85 mL round bottom hole           |
| TR2-9(250)    | 9 x 1.5/2.0 mL Microtube Rack for angle rotor A250-6             |
| TR5c-4(250)   | 4 x 5 mL Conical Tube Rack for angle rotor A250-6                |
| TR7-8(250)    | 8 x 4~7 mL Round Tube Rack for angle rotor A250-6                |
| TR10-7(250)   | 7 x 8~10 mL Round Tube Rack for angle rotor A250-6               |
| TR15-4(250)   | 4 x 15 mL Round Tube Rack for angle rotor A250-6                 |
| TR15c-4(250)  | 4 x 15 mL Conical Tube Rack for angle rotor A250-6               |
| TR25c(250)    | 25 mL Conical Tube Adaptor for angle rotor A250-6                |
| TR30-3(250)   | 3 x 30 mL Round Tube Rack for angle rotor A250-6                 |
| TR50-2(250)   | 2 x 50 mL Round Tube Rack for angle rotor A250-6                 |
| TR50c(250)    | 50 mL Conical Tube Adaptor for angle rotor A250-6                |
| TR50cs(250)   | 50 mL Skirted Conical Tube Adaptor for angle rotor A250-6        |
| TR85(250)     | 85 mL Round Tube Adaptor for angle rotor A250-6                  |
| TR100(250)    | 100 mL Round Tube Adaptor for angle rotor A250-6                 |
| TR5-9(500)    | 9 x 5 mL Tube Rack for 500 mL bucket                             |
| TR10-9(500)   | 9 x 10 mL Tube Rack for 500 mL bucket                            |
| TR15-9(500)   | 9 x 15 mL Tube Rack for 500 mL bucket                            |
| TR15c-7(500)  | 7 x conical 15 mL Tube Rack for 500 mL bucket                    |
| TR50-4(500)   | 4 x 50 mL Tube Rack for 500 mL bucket                            |
| TR50c-3(500)  | 3 x 50 mL conical Tube Rack for 500 mL bucket                    |
| TR100(500)    | 1 x 100 mL Tube Rack for 500 mL bucket                           |
| TR250(500)    | 1 x 250 mL Tube Rack for 500 mL bucket                           |
| TR500(500)    | 1 x 500 mL Tube Rack for 500 mL bucket                           |
| TR5-24(750)   | 24 x 5 mL Tube Rack for 750 mL bucket                            |
| TR10-21(750)  | 21 x 10 mL Tube Rack for 750 mL bucket                           |
| TR15-19(750)  | 19 x 15 mL Tube Rack for 750 mL bucket                           |
| TR15c-14(750) | 14 x 15 mL Conical Tube Rack for 750 mL bucket                   |
| TR50-7N(750)  | 7 x 50 mL Tube Rack for 750 mL bucket                            |
| TR50c-5N(750) | 5 x 50 mL Conical Tube Rack for 750 mL bucket                    |
| TR250(750)    | 1 x 250 mL Tube Rack for 750 mL bucket                           |
| TR225c(750)   | 225 mL Conical Adaptor for 750 mL bucket                         |
| TR250c(750)   | 250 mL Conical Adaptor for 750 mL bucket                         |
| TR500(750)    | 1 x 500 mL Tube Rack for 750 mL bucket                           |
| TR500c(750)   | 500 mL Conical Adaptor for 750 mL bucket                         |

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